PTO/SB/05 (05-03)

Approved for use through 10/31/2002, OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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LITH ITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 4041K-000149 First Inventor Masahira SHIMOYA et al Heat Exchange Title

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) Express Mail Label No. FI 623 598 861 US Mail Stop Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents Alexandria, VA 22313-1450 1. 🛛 Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. 🔲 Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. 🛛 Specification [Total Pages 18 a. Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: - Descriptive title of the Invention i, T CD-ROM or CD-R (2 copies); or Specification - Cross References to Related Applications filed in English ii. 🔲 paper - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix ACCOMPANYING APPLICATIONS PARTS - Background of the Invention - Brief Summary of the Invention 9. 🖾 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 37 C.F.R.§3.73(b) Statement Power of - Detailed Description (when there is an assignee) Attorney - Claim(s) - Abstract of the Disclosure 11. T English Translation Document (if applicable) 4. Drawing(s) (35 U.S.C.113) Total Sheets 13 12. M Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration [Total Pages 3 13. Preliminary Amendment Newly executed (original or copy) Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. Certified Copy of Priority Document(s) i, \(\subset \) DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inve Request and Non Publication under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b) or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76. Continuation-in-part (CIP) ☐ Continuation ☐ Divisional of prior application No: ____ Prior application information: Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS 27572 or Correspondence address below Customer Number or Bar Code Laber (Insert Customer No. or Attach bar code label here) Hamess, Dickey & Pierce, P.L.C. Name P.O. Box 828 Addrase City 48303 Bloomfield Hills State M Zip Code United States of America Telephone 248-641-1600 Fax 248-641-0270 Country Name (Print/Type) Michael J. Schmidt, Esq. Registration No. (Attorney/Agent) 34.007 Date Signature August 26, 2003

PTOSBr17 (01-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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FEE TRANSMITTAL						Complete if Known						
			Applic	Application Number unassigned yet								
	FY 2003	3	Filing	Date		August 26, 2003						
			First Named Inventor			Masahiro SHIMOYA et al						
	subject to annual rev	sion.	Exam	Examiner Name								
☐ Appl	all entity status. S	ee 37 CFR 1.27	Group	Group / Art Unit								
TOTAL A	MENT (\$)	90	Attorney Docket No. 4041K-000149									
METHOD OF PAYMENT (check all that apply)						FEE CALCULATION (continued)						
mic (1100 O) FATINGE (CHECK all that apply)						3. ADDITIONAL FEES						
☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order						Large Entity Small Entity						
☐ Deposit	Account:				Foe Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Deposit Account	08-	750			1051	130	2051	65	Surcharge - late filing fee or oath			
Number					1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.			
Deposit					1053	130	1053	130	Non-English specification			
Account Harness, Dickey & Pierce, P.L.C.				1812	2,520	1812	2,520	For filing a request for reexamination				
Name The Commissioner is authorized to: (check all that apply)					1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action			
□ Charge fee(s) indicated below ☑ Credit any overpayments □ Charge any additional fee(s) during the pendency of this application						1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	П		
Charge fee(s) indicated below, except for the filling fee						110	2251	55	Extension for reply within first month			
to the above-identified deposit account. FEE CALCULATION						410	2252	205	Extension for reply within second month			
BASIC FILING FEE						930	2253	465	Extension for reply within third month			
Large Entity Small Entity						1,450	2254	725	Extension for reply within fourth			
Fee Fe Code (\$)		Fee (\$)	Fee Description	Fee Paid	1255	1,970	2255	985	Extension for reply within fifth month			
1001 75		375	Utility filing fee	750	1401	320	2401	160	Notice of Appeal			
1002 33		165	Design filing fee		1402	320	2402	160	Filing a brief in support of an appeal			
1002 52		260	Plant filing fee		1403	280	2403	140	Request for oral hearing			
1004 75	2004	375	Reissue filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding			
1005 16	2005	80	Provisional filling fe	e	1452	110	2452	55	Petition to revive – unavoidable			
SUBTOTAL (1) (\$) 750						1,300	2453	650	Petition to revive - unintentional			
						1,300	2501	650	Utility issue fee (or reissue)			
2. EXTRA CLAIM FEES						470	2502	235	Design issue fee			
			Extra Fee Claims belo	from Fee w Paid	1503	630	2503	315	Plant issue fee			
Total Claims	15 -	20 ** =		= 0	1460	130	1460	130	Petitions to the Commissioner			
Independent					1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)			
		2 ** *	lo lxl	1-10 1								

Cigrins			Ľ	^	1806	180	1806	180	Stmt
Multiple Dependent				X = 0	8021	40	8021	40	Recording each patent assignment per property (times number of 40
Large Er	Large Entity Small Entity				,)		properties)
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))
1202	18	2202	9	Claims in excess of 20	1810	750	2810	375	For each additional invention to be
1201	84	2201	42	Independent claims in excess of 3 examined (37 CFR § 1.129(b))					examined (37 CFR § 1.129(b))
1203	280	2203	140	Multiple dependent claim, if not paid	1801	750	2801	375	Request for Continued Examination (RCE)
1204	84	2204	42	** Reissue independent claims over original patent	1802	900	1802	900	Request for expedited examination
1205	18	2205	9	** Reissue claims in excess of 20 and of a design application over original patent					
				STOTAL (2) (\$) 0	1		ify)		Paid SUBTOTAL (3) (5) 40
**or nu	mber prev	riously pai	d, if grea	iter; For Reissues, see above	1				

SUBMITTED BY Complete (if applicable)										
Name (Print/Type)	Michael J. Schmidt, Esq.	Registration No. Attorney/Agent)	34,007	Telephone	248-641-1600					
Signature	/2 h	I do	><	Date	August 26, 2003					